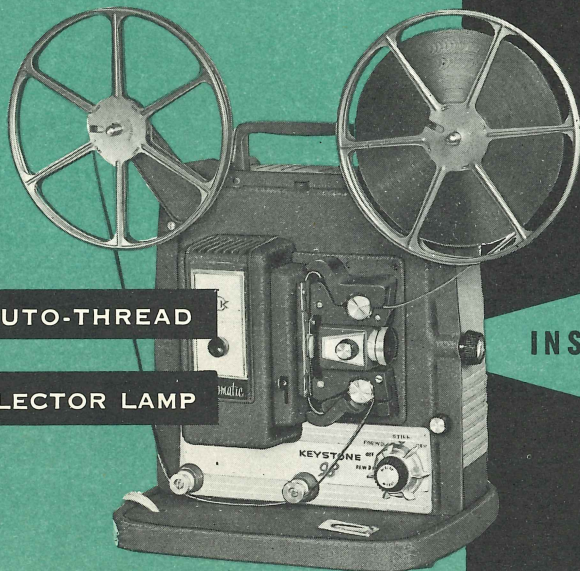


YOUR NEW  
**KEYSTONE**

**K-98 -  
K-98 Z**

**8MM AUTOMATIC  
MOVIE PROJECTOR**



• **AUTO-THREAD**

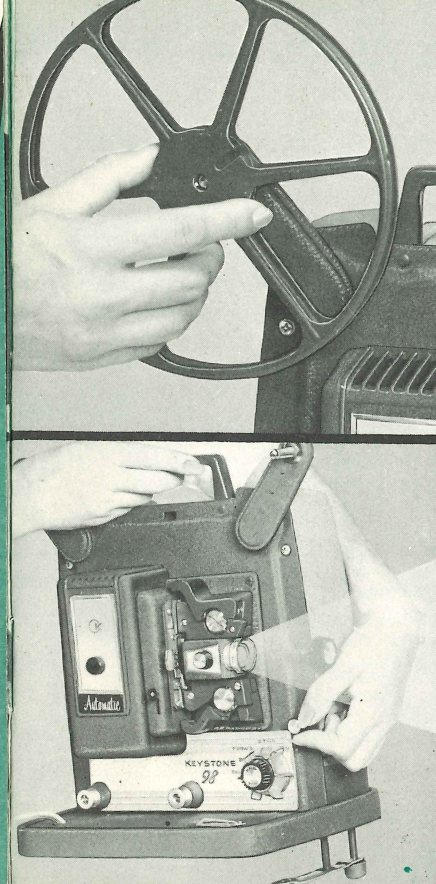
• **TRU-FLECTOR LAMP**

**INSTRUCTION MANUAL**

## GETTING TO KNOW YOUR PROJECTOR

Your Keystone Projector has all the new automatic features that make movie-showing easier than ever, finer than ever. By taking the time to read this manual now, you'll be able to use every feature with ease and confidence when you show your first movie.

TURN THIS PAGE



**4. SNAP ON TAKE-UP REEL** by lining up one of three slots in reel hub with shaft spring and pushing reel onto shaft. Use same method to snap on Supply Reel.

**5. PLUG PROJECTOR CORD INTO ROOM SOCKET.**

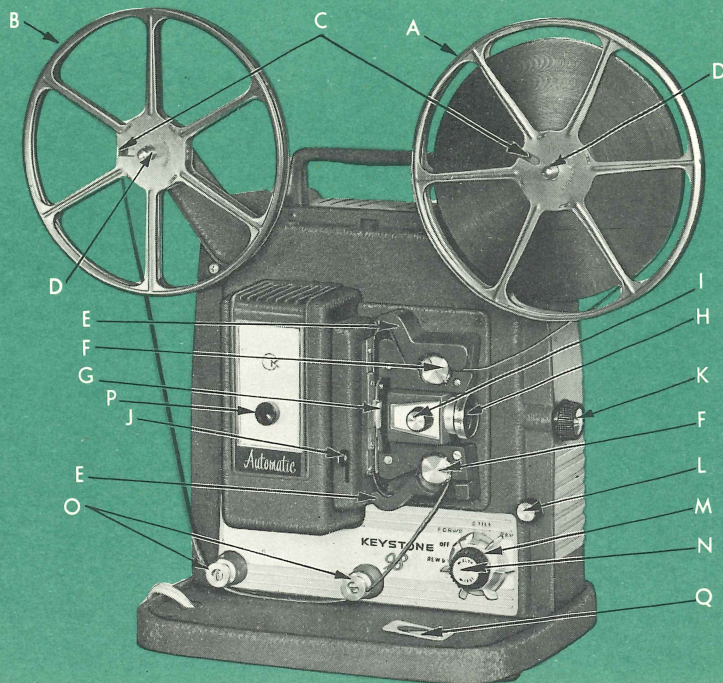
**6. PLUG ROOM LAMP INTO SOCKET AT REAR OF PROJECTOR.** Operate switch for off and on.

**7. ADJUST PROJECTOR TILT** by turning Selecto-matic Control to "FORWARD", loosening Tilt Lock Knob and using projected field of light to set projector at proper elevation. Tighten knob and turn Selecto-matic Control to "OFF".



# KEEP THIS PAGE OPEN FOR REFERENCE:

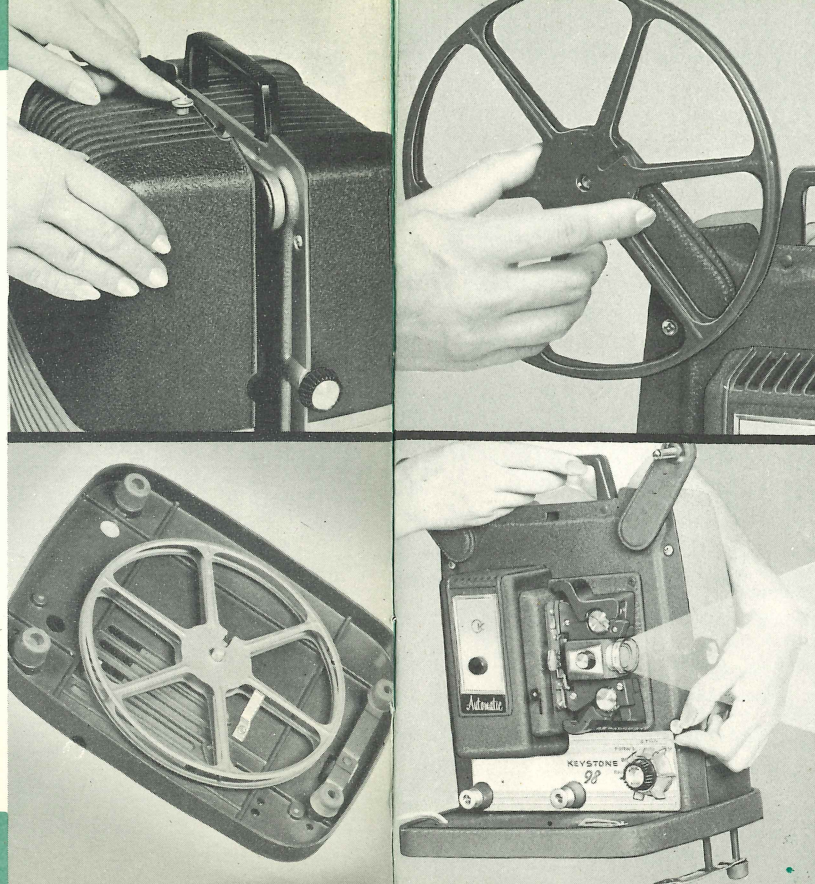
- A.** SUPPLY REEL
- B.** TAKE-UP REEL
- C.** REEL SLOTS
- D.** REEL SHAFTS
- E.** AUTOMATIC FILM GUIDES
- F.** SPROCKETS
- G.** PRESSURE PLATE
- H.** LENS
- I.** FOCUSING KNOB
- J.** FRAMER LEVER
- K.** HAND SETTING KNOB
- L.** TILT LOCK KNOB
- M.** SELECTRO-MATIC CONTROL
- N.** SPEED CONTROL KNOB
- O.** FILM ROLLERS
- P.** LAMPHOUSE COVER KNOB
- Q.** FILM CLIPPER



# 1

## SETTING UP

1. **TAKE OFF PROJECTOR COVER** by pressing down on latch button and pulling cover top away.
2. **SWING REEL ARMS OUT.**
3. **REMOVE TAKE-UP REEL** by rotating approximately a quarter turn to free reel from clip. Pull reel out from stud.

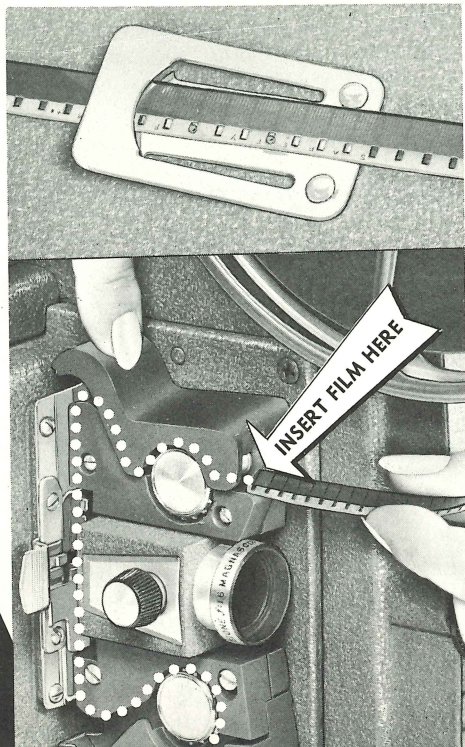


4. **SNAP ON TAKE-UP REEL** by lining up one of three slots in reel hub with shaft spring and pushing reel onto shaft. Use same method to snap on Supply Reel.
5. **PLUG PROJECTOR CORD INTO ROOM SOCKET.**
6. **PLUG ROOM LAMP INTO SOCKET AT REAR OF PROJECTOR.** Operate switch for off and on.
7. **ADJUST PROJECTOR TILT** by turning Selectro-matic Control to "FORWARD", loosening Tilt Lock Knob and using projected field of light to set projector at proper elevation. Tighten knob and turn Selectro-matic Control to "OFF".



# 2

## THREADING with Auto-Thread

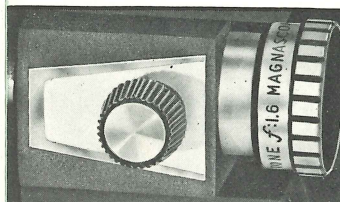
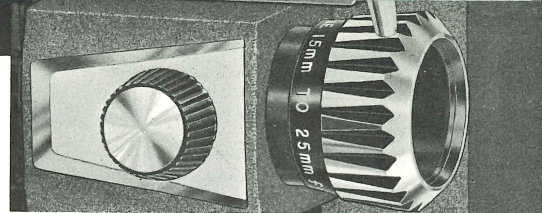


1. FIRST, TO INSURE PERFECT THREADING, ROUND OFF FILM END WITH FILM CLIPPER by fitting film sprocket holes onto Clipper locating pins and firmly pressing down Clipper. It is necessary to clip each roll of film only once.
2. Start projector by moving Selectro-matic Control to "FORWARD".
3. PRESS AND HOLD DOWN Top Automatic Film Guide. Do not release until film emerges from bottom sprocket.
4. Insert film between Upper Guide and Sprocket. Sprocket will grip film and automatically guide it through threading cycle. Release pressure on Top Guide.
5. Let an extra foot-and-a-half of film run through bottom Sprocket, then turn Selectro-matic switch "OFF".
6. Guide film end under Film Rollers and onto Take-up Reel; press film onto hub, it will grip automatically.

# 3

## FOCUSING THE K-98Z

With Selectro-matic Control at "FORWARD", turn Focusing Knob either way until image on screen is sharp.



## FOCUSING THE K-98 (NOT ZOOM)

The K-98 f/1.6 Magnascope is especially designed to project a wide image that fills the screen from a short distance.

Once projector is set up, turn Selectro-matic Control to "FORWARD" and turn focusing knob either way until image on screen is needle-sharp.

## ZOOMING THE K-98Z

Once focused, fit the picture to the full screen area by sliding the Zoom Lens pin forward or backward until the projected image fills your screen.

### TURN MACHINE TO "OFF".

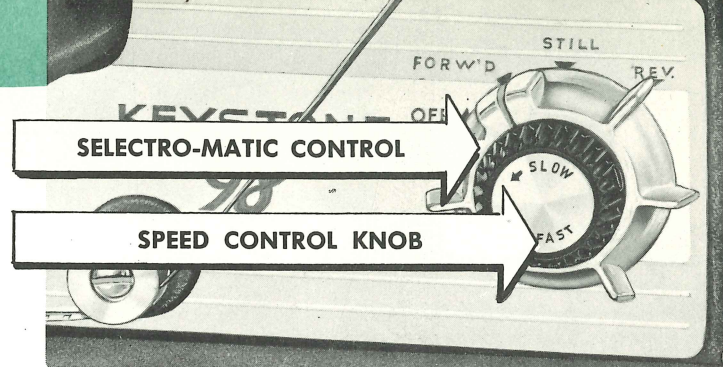
*You're all set . . . the show is ready to begin*

**NOTE!** You can achieve striking close-ups of subject during a film run by Zooming the image as big as possible and letting the surrounding picture spill over the edges of the screen.



# 4

## OPERATING



Turn Selectro-matic Control to "FORWARD" . . . the projection lamp will light, film will move and be projected. Snap room lamp off. This is the time to adjust the focus to hair-line sharpness with the Focusing Knob.

**FRAMING.** If the projected picture is "cut off" at the top or bottom, slowly move the Framer Lever up or down until a full picture is in view. (See J in diagram, page 1.)

**SPEED CONTROL KNOB** allows you to slow down or speed up the action. Simply turn it clockwise to increase and counter-clockwise to decrease speed.

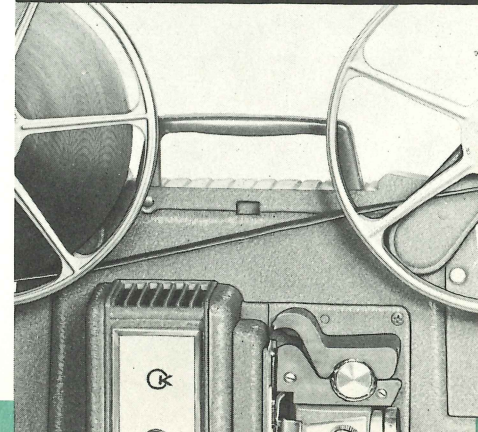
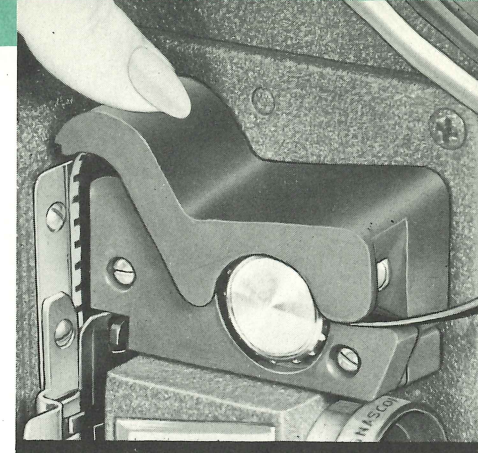
**STILL** position on Selectro-matic Control stops the action at any stage of the film you choose. Simply turn Control to "STILL". When projector is in "STILL" position the motor does not operate. If picture is dark, turn Hand Setting Knob (see K in diagram, page 1).

**REVERSE** position makes the action go backwards, creating humorous scenes. Turn Selectro-matic Control to "REVERSE" and film will change direction immediately.

**REGAINING THE LOOP.** A loop in the film is necessary both above and below the projecting mechanism. A torn film sprocket hole or a faulty splice may cause a loop to tighten up . . . making the image jumpy. To regain the loop automatically, just press down the Top Movable Film Guide for a moment. The loop can also be regained by switching to "reverse" for a few frames and then back to "forward". There's no need to stop the projector.

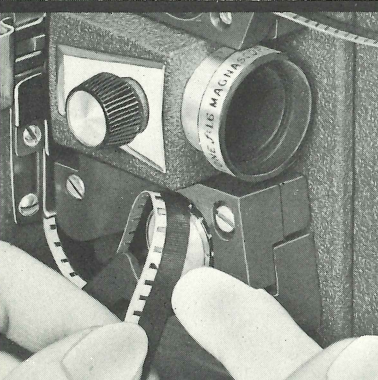
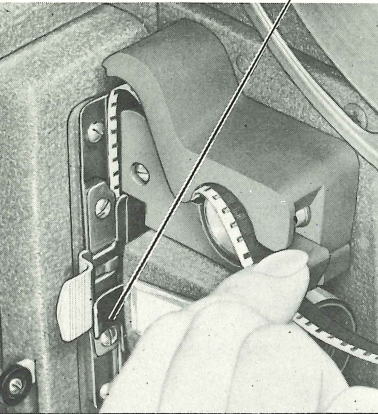
**REWINDING.** After film has been shown, turn Selectro-matic Control to "OFF", thread film end directly from Take-up Reel onto Supply Reel and turn Selectro-matic Control to "REWIND", turn speed control to high. Turn to "OFF" when film is fully rewound, reset speed control. Film is now ready for next showing.

When projector is not in use, Selectro-matic Control should always be in "OFF" position.





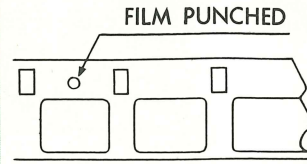
## FILM PERFORATOR



## EDITING

1. Turn Selectro-matic Control to "STILL" when the first frame of film that you wish to cut out is visible.
2. Mark selected frame by pressing Film Perforator against film. This will make a small identifying punch-mark on film as shown.
3. Start projecting film again until you come to the end of section you want to take out. Set control at "STILL" and perforate film.
4. After you have completely edited film, remove from projector, cut out film between punch marks, and splice. If editing perforations are not readily visible, slide section that is marked between thumb and index finger to feel perforations.

**NOTE:** Never press Film Perforator when film is running.



## REMOVING PARTLY SHOWN FILM FROM THREADING MECHANISM.

You can, if you wish, quickly remove a film from the threading mechanism when only partly shown: turn projector "OFF". Remove Pressure Plate by pressing in slightly, moving forward and sliding out (see "G" on page 1). Grip edges of film where it enters Upper Film Guide, push in gently; this "humps" film off upper sprocket. Carefully work film sideways off upper sprocket. Remove film from lower sprocket by lifting up the film guide housing above sprocket, and gently sliding film up and off sprocket. The film in Pressure Plate area will now slide out easily. (Be careful that film does not loop off reels, this will cause it to twist.) Rewind the film, replace Pressure Plate and you're ready for the next reel.

# 5

## INSERTING THE LAMP IN PROJECTOR

A truflector, type DCH, 115 volt, 150 watt lamp is packed in the separate container inside your projector case cover.

Before installing the lamp be certain that the line cord is NOT plugged in to an electrical outlet.

To remove the lamphouse cover, unscrew the fastening knob and remove the lamphouse cover by sliding outward from the projector.

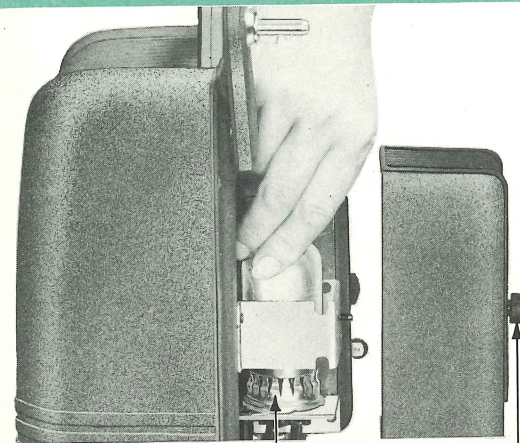
Examine the bottom of the lamp, the key on the base should line up with the slot in the projector socket. Press lamp straight down until it seats. (Do not twist.)

Return lamphouse to projector and tighten screw. *Caution:* Do not test lamp unless lamphouse is assembled to projector.

## REPLACING THE LAMP

Before attempting to replace the lamp, check to insure that the projector is in the "OFF" position and that the lamphouse is cool.

Replacement lamps may be obtained from your Keystone dealer. When ordering a replacement lamp use information given above; for maximum lamp life and screen brilliancy be sure that your line voltage is approximately the same as voltage rating specified.



LAMP  
SOCKET

LAMPHOUSE COVER  
FASTENING KNOB



## CLEANING

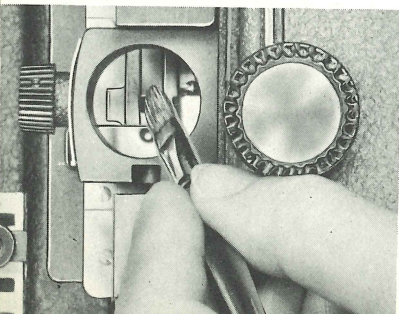
To remove — and replace — projection lens, pull out focusing knob slightly; the lens barrel slides in and out easily. Clean outer lens surfaces with soft-hair brush or soft, clean, lintless cloth. Clean aperture before replacing lens with brush or cloth wrapped about pencil.

Remove Pressure Plate by pressing in slightly, moving forward and sliding out. Wipe the track on both the Pressure Plate and the Aperture Plate with a cloth moistened slightly with alcohol or cleaning fluid.

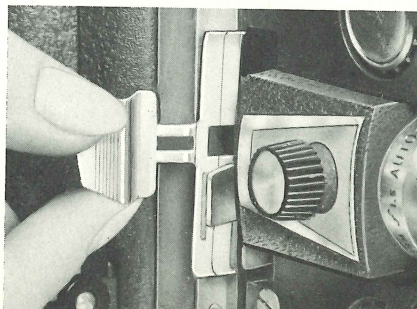
***Your projector is lubricated for life.  
You never oil it.***

When projector is not in use, it is good practice to have the Selectro-matic Control at the "OFF" position so your projector will be ready for the next show.

cleaning aperture



removing pressure plate



## SEND IN YOUR GUARANTEE REGISTRATION CARD

Your Keystone Auto-Thread Projector carries a one year guarantee, subject to the limitations noted on the registration card enclosed with the projector. The guarantee does not become effective unless your registration card is filled out completely and mailed to the Keystone factory within 30 days from date of purchase.

**FILL IT OUT AND  
MAIL IT TODAY. YOUR  
PROJECTOR'S SERIAL  
NUMBER IS ON THE  
FRONT NAMEPLATE.**

## TABLES OF PROJECTED PICTURE SIZES

### K-98 with f1.6 Magnascope Lens

Distance From Screen	WIDTH OF PICTURE
	f1.6 Magnascope Lens
4'	0'11"
5'	1'2"
6'	1'4"
8'	1'10"
10'	2'3"
12'	2'9"
14'	3'2"
16'	3'8"

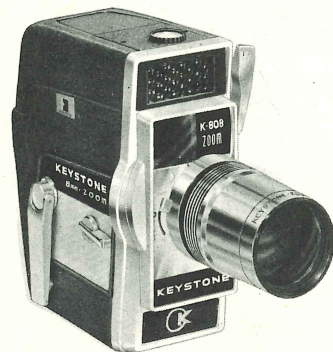
### K-98Z WITH ZOOM LENS

Distance From Screen	Focal Length: 15MM Largest Projected Area	Focal Length: 25MM Smallest Projected Area
4'	1'4"	0'8"
5'	1'10"	0'10"
6'	2'1"	1'0"
8'	2'8"	1'4"
10'	3'4"	1'8"
12'	4'0"	2'1"
15'	5'0"	2'7"
18'	6'0"	3'1"
20'	6'8"	3'5"

These tables are for reference. You can easily fit the picture to the screen by eye, if you wish.

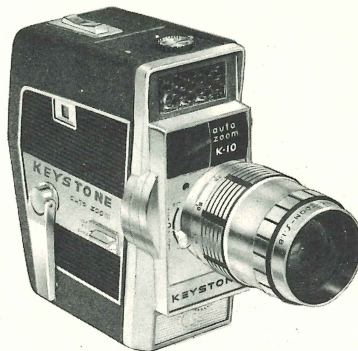


### MANUAL ZOOM K-808



K-808 — Manual Zoom Camera with f1.8 lens, completely automatic Electric Eye coupled viewfinder, visible settings and sufficient light indication visible through viewfinder, 3-way trigger for continuous, single frame and regular run, 3 to 1 zoom range, built to accommodate film speeds ASA 10 to 40, built-in Type A filter, long run governor controlled motor, automatic footage indicator. Optional pistol grip.

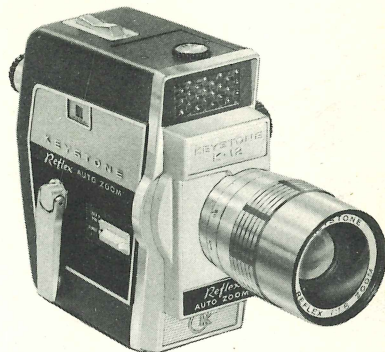
### AUTO-ZOOM K-10



with Feather-Touch Power Control

K-10 PUSH BUTTON POWER ZOOM. The f1.8 zoom lens zooms smoothly from wide angle, to normal, to telephoto and back again automatically at finger tip touch. The fully automatic electric eye responds instantly to light changes setting the lens automatically for perfect exposures. "A" filter selector lets you use indoor film outdoors. Automatic footage indicator, a 3 way trigger, long run governor controlled motor and settings for all new film speeds are some of the additional features.

### REFLEX AUTO-ZOOM K-12



with Feather-Touch Power Control

K-12 Keystone's deluxe Reflex "Through-the-Lens" power zoom camera with a 3 to 1 zoom range. Has f/1.8 focusing mount reflex lens. Completely automatic E. E. system, visible settings and sufficient light indicator visible through the lens, manual fade-in fade-out, 3-way trigger for regular run, continuous and single frame, accommodates film speeds ASA10 to 40, built-in Type A filter, long run governor controlled motor, automatic footage indicator, alternate zoom means for manual zooming, focusing eye piece.

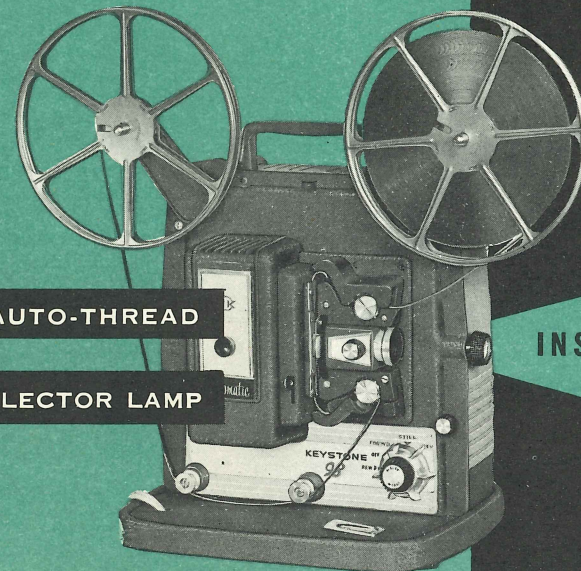
**KEYSTONE**  
Keystone Camera Co., Inc., Hallet Square, Boston 24, Mass.

Printed in U. S. A.

## YOUR NEW KEYSTONE

## K-98 - K-98 Z

8MM AUTOMATIC  
MOVIE PROJECTOR



• AUTO-THREAD

• TRU-FLECTOR LAMP

INSTRUCTION MANUAL

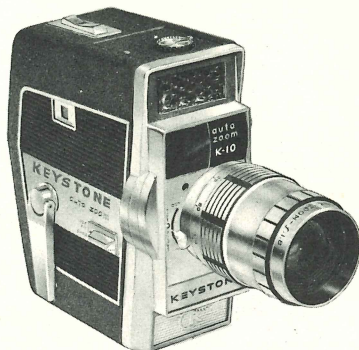


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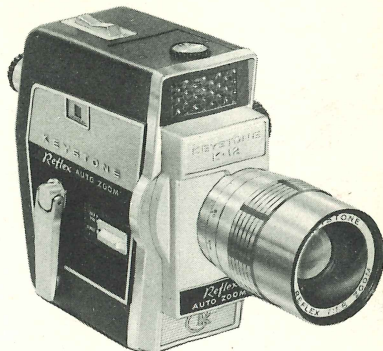
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